

ABSTRACT OF THE DISCLOSURE

A one-chip system large-scale integrated circuit comprises: a storage circuit in which a program has been stored; a processor circuit for processing an operation in accordance with the program using a program counter, a computing unit and a register; and a peripheral circuit, capable of sending and receiving a signal to and from the processor circuit using at least one functional block, for carrying out a predetermined logical operation in accordance with an input signal. The processor circuit further comprises: a selection element for optionally selecting one of the outputs of the program counter, the computing unit and the register, at least one output of the storage circuit, and one of the outputs of a plurality of internal signals in the peripheral circuit including the output of the functional block; and a monitor control element for controlling selection of a result signal from any operation process in any place of the processor circuit, the storage circuit and the peripheral circuit, on the basis of an external monitor signal which is supplied from the outside of the system LSI via an external terminal. Thus, when the debug of the one-chip system LSI is monitored, a region and operation process having caused a bug can be precisely monitored, so that it is possible to carry out an efficient debug.